

Table S15 Trend analyses for Radon and Gamma-ray exposures as separate explanatory variables

Model includes quintile of Carstairs index of deprivation with either cumulative radon exposure or cumulative gamma-ray exposure
 Exposure period birth to diagnosis

ICCC3 Codes		Number of Cases	Number of Controls	Relative Risk (adjusted for quintile of Carstairs index of deprivation)					
				Radon			Gamma		
				RR ^a	95% CI	P	RR ^b	95% CI	P
11	Lymphoid Leukaemia	7267	9571	1.25	0.95 - 1.65	0.12	1.10	1.02 - 1.19	0.01
12	Acute Myeloid leukaemia	1316	1737	0.73	0.38 - 1.42	0.36	1.04	0.89 - 1.20	0.65
13-15	Other Leukaemia	475	604	1.07	0.43 - 2.65	0.89	1.19	0.90 - 1.57	0.23
11-15	Total Leukaemia	9058	11912	1.13	0.89 - 1.44	0.31	<u>1.09</u>	1.02 - 1.17	0.01
21	Hodgkin's disease	939	1388	1.07	0.67 - 1.71	0.79	1.04	0.93 - 1.16	0.53
22	Non-Hodgkin Lymphoma	983	1302	1.30	0.70 - 2.42	0.40	1.05	0.90 - 1.22	0.57
21-25	Total Lymphoma	2319	3274	1.14	0.80 - 1.62	0.46	1.01	0.93 - 1.09	0.84
11 ,22	Lymphoid Leukaemia + NHL	8250	10873	1.25	0.97 - 1.61	0.08	1.09	1.02 - 1.17	0.01
11-15, 22	Total Leukaemia + NHL	10041	13214	1.15	0.92 - 1.44	0.22	<u>1.08</u>	1.02 - 1.15	0.01
31-36	Brain/CNS (including Benign)	6585	8997	1.15	0.88 - 1.51	0.31	1.02	0.96 - 1.09	0.48
41-122	Other malignant tumours	9485	12610	0.99	0.80 - 1.23	0.96	1.02	0.96 - 1.08	0.57
21-122	Not Leukaemia	18389	24881	1.06	0.92 - 1.24	0.42	1.02	0.98 - 1.06	0.37
11-122	Total Childhood Cancer	27447	36793	1.08	0.95 - 1.23	0.22	1.04	1.00 - 1.07	0.04

^aRR for each 10^3 Bq/m³ - years increase in cumulative radon exposure

^bRR for each mGy increase in cumulative gamma exposure

RRs in bold are significantly different from 1.00 (P<0.05), RRs in bold and underlined are significantly different from 1 (P<0.01)